

## EXHIBIT 18

CA bom by 2003-12(3)/02 NY bon by 2004 1/1/04 CT 10/1/2003

## USGC MTBE PHASE OUT ASSESSMENT

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SCOPING OF POTENTIAL ETHANOL LEGISLATIVE PROPOSALS

## USGC MTBE PHASE OUT ASSESSMENT KEY OUTCOMES

- MTBE removal from mogas would be costly for XOM
- Total USGC margin impact (3 refineries) estimated at 50-100 M\$/YR primarily due to octane loss
- Options to minimize/mitigate octane/margin impact of MTBE phase out identified
- Ethanol blending, with continued oxygen mandate, reduces octane shortfall; RVP impact manageable
- Conversion of MTBE units to isooctene would further reduce/eliminate octane shortfall ı
  - Ethanol/isooctene complimentary steps -- not necessarily in competition
- In all cases examined, MTBE ban without oxygenate mandate is better for XOM
- Producibility of mogas in USGC refineries can be maintained at roughly current rates with MTBE ban through ethanol/isooctene steps
- With no oxygenate or ethanol mandate, ethanol is rarely imported into the USGC gasoline blending pool in summer
- 3 vol % ethanol mandate on total corporate mogas results in USGC margin loss
- 2 vol% ethanol mandate can probably be contained at Joliet/Torrance without major debits
- Any potential ethanol/oxygenate mandate should provide maximum flexibility (annual balancing, no specific location, etc.)

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## **BUSINESS STRATEGY STUDY APPROACH** USGC MTBE PHASE OUT ASSESSMENT

Assessed potential scenarios for gasoline blending.

- Oxygen mandate with no ether ban (Base Case)
- Oxygen mandate with ether ban (ethanol assumed to be the only viable oxygenate)
  - Vo oxygen mandate with ether ban.

Basis assumptions

- Low Sulfur Mogas (30 ppm) in place.
- Flexible raw material/product slates and unit rates.
- 2000 COP Prices for 2005 (UR \$20.3/B, Octane \$0.35/OIB, RFG Premium 1.8 cpg)
- Ethanol blending assumed to be downstream of refineries; economics evaluated using subsidized price. MTBE unit conversion for Isooctene production using Snamprogetti technology.

n a separate assessment evaluated potential scenarios for ethanol gasoline blends.

- Ethanol mandate of 3.3% of total corporate mogas pool, with no oxygenate mandate
- Oxygen mandate with different amounts of ethanol blended into mogas, volumes per tax regulations

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All cases able to economically maintain base crude/cat rates and aromatics sales.

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Indicative DCF, %

vs No Investment

vs Lower Cost Option

Cost vs Base, cpg

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Isooctene purchase, to increase UP producibility, breakeven price ~\$31/B; toluene uneconomic/blending limited.

Grassroots alky expansion unattractive vs isooctene; low cost alky debottleneck potentially economic.

Ethanol price/RFG premium parity an issue.

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All cases able to economically maintain base crude/cat rates and aromatics sales.

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Isooctene purchase, to increase UP producibility, breakeven price ~\$27/B; toluene uneconomic/blending limited.

Grassroots alky expansion unattractive vs Isooctene; low cost alky debottleneck potentially economic.

Ethanol price/RFG premium parity an issue.

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All cases able to economically maintain base crude/cat rates and aromatics sales; mogas producibility increase by imported natural gasoline to isom unit a potential opportunity.

sooctene purchase, to increase UP producibility, breakeven price ~\$30/B; toluene uneconomic/blending limited.

Grassroots alky expansion unattractive vs Isooctene; low cost alky debottleneck potentially economic.

Ethanol price/RFG premium parity an issue.

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